32nd International Symposium on Lattice Field Theory (Lattice 2014)



Contribution ID: 216

Type: Talk

## Nonperturbative renormalization of bilinear operators with Mobius domain-wall fermions in the coordinate space

Tuesday, 24 June 2014 17:30 (20 minutes)

We study a non-perturbative determination of the renormalization constants of flavor non-singlet quark bilinear operators. The renormalization condition is imposed on correlation functions of bilinear operators in the coordinate space. The results are converted to the value in the MSbar scheme by a perturbative matching. The calculation is done on gauge configurations generated with the Mobius domain-wall fermions at two lattice spacings a = 0.08 and 0.06 fm.

Primary author: Mr TOMII, Masaaki (Graduate university for advanced studies)
Co-authors: Dr COSSU, Guido (KEK); Dr NOAKI, Jun-Ichi (KEK); Prof. HASHIMOTO, Shoji (KEK)
Presenter: Mr TOMII, Masaaki (Graduate university for advanced studies)
Session Classification: Standard model parameters and renormalization

Track Classification: Standard Model Parameters and Renormalization